

Visualization project

Dashboard 1 Link:

https://public.tableau.com/app/profile/mai.abouelmagd/viz/flights_16527196250340/Dashboard3

Summary 1:

I designed this dashboard to show departure airports that have more than 5000 flight records and added the month filter to be able to see the number of flight records in any period of time for these airports. We can observe that **Hartsfield-Jackson Atlanta International Airport (ATL)** has the biggest number of flights 18,056 then **O'Hare International Airport (ORD)** has the second biggest number of flights 14,684. Changing the month filter we can find more numbers and insights.

Dashboard 2 Link:

https://public.tableau.com/app/profile/mai.abouelmagd/viz/cancellations_16527112539460/Dashboard2

Summary 2:

This dashboard shows cancellation flights insights. I divided it into two visualizations, the first one shows the total count of canceled flights by state and the second one shows the total number of canceled flights through the week with a day of week filter. From the map visualization we can observe that **Texas (TX)** has the most canceled flights (668) then **Illinois (IL)** comes next with (563). And in the second visualization we can observe through the week and on any specific day of the week using the day of week filter.

Dashboard 3 Link:

https://public.tableau.com/app/profile/mai.abouelmagd/viz/delays_16527109860710/Dashboard1

Summary 3:

This dashboard shows delay in flights. I divided it into two visualizations, the first one shows the average departure delay by airline and the second one shows average airline delay by month. From the bar visualization we can observe that **Spirit Airlines** has the most average departure delay (17,37) and **United airlines inc.** the second most average departure delay (15,12). And in the second visualization we can observe through the year and in any specific month like in June the most delay in flights happened (19,735).

Design :

Colors are in blue so it doesn't distract the viewer from the point. Comfortable to the eye.

A world map to represent the figures for each state.

A column chart to show the categorical data figures.

An area chart to show data changing over time.

A bubble chart to show categorical data.

Resources :

Udacity walkthrough tutorial:

<https://www.youtube.com/watch?v=9xqHA732LMA>

